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(54) Title: THERAPEUTIC USE OF A GROWTH FACTOR, NSG33

(57) **Abstract:** The present invention relates to the field of therapeutic use of proteins, genes and cells. More specifically the inven-
tion relates to therapy based on the biological function of a secreted therapeutic protein, NsG33, in particular for the treatment of
disorders of the nervous system. NsG33 is a nerve survival and growth factor with antiapoptotic effects on a cell line with neuronal
potential and with neuroprotective and/or neurogenesis effects on a neural precursor cell line and on primary striatal cultures. The
invention also relates to novel bioactive NsG33 polypeptide fragments and the corresponding encoding DNA sequences.

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